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## Claims

- 1. Process for filling a vehicle tank with a gaseous fuel, wherein the fuel is compressed, placed in temporary storage, and expanded in the vehicle tank and wherein the fuel has a high hydrogen content, characterized in that an oil or an oil mixture is added in doses to the fuel.
- 2. Process according to claim 1, wherein the oil or oil mixture contains mineral oil.
- 3. Process according to claim 1, wherein the oil or oil mixture contains synthetic oil.

fuel contains the hydrogen as a hydrogen molecule and/or as a hydrocarbon.

- 5. Process according to one of claims 1 to 4, wherein the oil or oil mixture is added so that the highest fuel pressure occurring during the filling remains below the saturation vapor pressure of the oil or a component of the oil.
- 6. Filling station for performing the process according to one of claims 1 to 5, with a compressor station and a high-pressure (HP) storage vessel for the gaseous fuel, characterized in that the filling station contains a dosing mechanism for oil or an oil mixture.
- 7. Filling station according to claim 6, wherein the dosing mechanism is upstream from the compressor station or placed between two compressor stages.